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 ELECTROLUMINESCENT INSERT  
 MOLDING, ITS MANUFACTURE  
 AND ELECTROLUMINESCENT  
 INSERT FILM  
 AB - (A) PROBLEM TO BE  
 SOLVED: To make an  
 electroluminescent part finely run  
 alongside a curved part of a resin  
 molding and also prevent attenuation  
 of electroluminescent brightness and  
 damaging and peeling the  
 electroluminescent film. SOLUTION:  
 After an electroluminescent part the  
 electroluminescent insert film 5 with  
 an electroluminescent layer 2  
 containing elastomer resin laminated at  
 least on one surface of light  
 transmitting film on which three  
 dimensional drawing can be applied in  
 an area of a temperature range of 0  
 deg.C-250 deg.C is molded to a three  
 dimensional shape, it is fitted in a  
 cavity forming surface 19 of a movable  
 die 18, molding resin is injected in the  
 cavity by closing the movable die 18  
 and a fixed die 17 and at the same time  
 of molding an injection molding, the  
 electroluminescent insert film 5 and  
 the injection molding are integrally  
 molded.  
 IC - (A) H05B33/02;  
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 3K007/BB00; 3K007/BB05;  
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 4F100/AA18H; 4F100/AA19H;  
 4F100/AA33; 4F100/AJ06;  
 4F100/AK01A; 4F100/AK01D;  
 4F100/AK04; 4F100/AK07;  
 4F100/AK12; 4F100/AK15;  
 4F100/AK15G; 4F100/AK22G;  
 4F100/AK25A; 4F100/AK25G;  
 4F100/AK41G; 4F100/AK42;  
 4F100/AK45; 4F100/AK48;  
 4F100/AK51; 4F100/AK51G;  
 4F100/AK68; 4F100/AK69;  
 4F100/AK74; 4F100/AL09B;  
 4F100/AL09G; 4F100/AR00C;  
 4F100/BA02; 4F100/BA03;  
 4F100/BA05; 4F100/BA07;  
 4F100/BA10B; 4F100/BA10C;  
 4F100/BA44B; 4F100/CA13;  
 4F100/CB00; 4F100/DD01;  
 4F100/EH362; 4F100/EH661;  
 4F100/EJ201; 4F100/EJ241;  
 4F100/EJ391; 4F100/EJ952;  
 4F100/GB31; 4F100/GB33;  
 4F100/GB48; 4F100/HB00C;  
 4F100/HB01; 4F100/JG01B;  
 4F100/JG04B; 4F100/JK06;  
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 4F100/JL01A; 4F100/JN01A;  
 4F100/JN01B; 4F100/JN13B;  
 4F100/JN13H; 4F100/JN30;  
 4F206/AA10; 4F206/AA11;  
 4F206/AA13; 4F206/AA24;  
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 4F206/AD09; 4F206/AD20;  
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4F206/AH25; 4F206/AH33;  
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AN - 1999-410101 [35]  
TI - Electroluminescence  
light emitting film for display panels -  
has electroluminescence light emitting  
layer with elastomeric resin formed in  
one side of transparent film  
AB - JP11162633  
NOVELTY - A transparent film has  
electroluminescence (EL) light  
emitting layer (2) having an elastomer  
in one side. The transparent film  
laminate formed at 0-250 deg. C spins  
the light three dimensionally.

- DETAILED DESCRIPTION -  
The EL light emitting inert film is an  
acryl film in which an image layer is  
formed on back side of EL light  
emitting layer. The light emitting layer  
consists of a laminate of transparent  
electrode, a fluorescent layer,  
insulating layer and a back plate. Each  
layer of the laminate contains an  
elastomer resin. The fluorescent layer  
is laminated partially in the light  
emitting layer. The back of a back  
plate is provided with a back film. The  
film in which at least one layer formed  
three dimensionally is inserted in a  
mold cavity for injection molding.

- An INDEPENDENT CLAIM  
is also included for injection molding  
of EL light emitting film inserted  
products, that involves injecting a resin  
into a closed mold containing the insert  
film.

- USE - For display panels used  
in motor vehicle internal equipment

components, house hold electric  
appliances etc.

- ADVANTAGE - An EL light  
emitting film suitable for injection  
molded curved products is easily  
obtained. The crack generated during  
changing the film forcibly is  
prevented. The adhesion of the light  
emission insert film is carried out  
firmly. Hence the separation of insert  
film due to wear is prevented.

- DESCRIPTION OF  
DRAWING - The figure shows the  
sectional drawing showing the EL light  
emission insert film for mouldings. (2)  
EL light emission layer.

- (Dwg.1/10)

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IW -

ELECTROLUMINESCENT  
LIGHT EMIT FILM DISPLAY  
PANEL ELECTROLUMINESCENT  
LIGHT EMIT LAYER ELASTOMER  
RESIN FORMING ONE SIDE  
TRANSPARENT FILM

IC - B29C45/14 ;B32B7/02  
;B32B25/08 ;G09F13/22 ;H05B33/02  
;H05B33/14 ;H05B33/22

MC - A04-F01A A11-B12A  
A12-E11 L03-C04

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